



HVAC protection
SOLUTIONS

RSH Series

Surge Protection and Voltage
Monitoring Devices





Stop damaging power fluctuation.



Ducted A/C

Ductless A/C

Whole Home

Protect home and equipment from electrical surges, brownouts and other voltage disturbances.

Maintain the security, function and longevity of electrical equipment.

Performance.

Long-lasting gas discharge tube technology

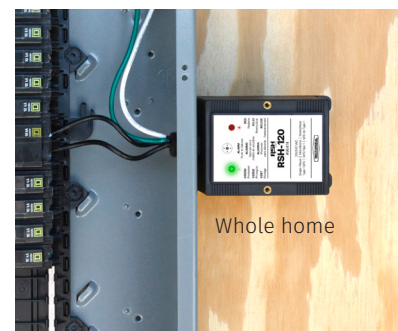
Safety.

Thermally-fused components

Warranty.

Unsurpassed industry product warranty

Extended connected equipment warranty



Whole home

Action videos and full details

rs.today/surgeprotection

SURGE PROTECTION DEVICES

RSH-50

50kA Surge Protective Device

Code	Description	Qty
96415	Surge Protective Device 50kA	6



Features

- Long-lasting hybrid Gas Discharge Tube (GDT)/Thermally Fused Metal Oxide Varistor (TFMOV) technology
- Limited-lifetime warranty
- Green LED easily indicates protection
- Weather-rated under NEMA 4X
- Fits all single-phase units
- UL 1449 listed
- NEC's highest Short Circuit Current Rating (SCCR) @200kA
- RoHS compliant

Recommended Application

Protect HVAC equipment from electrical surges. Protects from up to 50kA single surges and up to 10kA repetitive surges. Type 1 Device - can be mounted anywhere in the electrical system. Recommended for residential and commercial single-phase 120/240 VAC outside condensing units and indoor air handlers.

Specifications

- Operating Voltage - 120/240VAC
- Max discharge current per phase - 50kA (1 hit survivability)
- Normal discharge current - 10kA (15 hits survivability)
- Short circuit current - 200kA



1 LED

RSH-60

60kA Surge Protective Device

Code	Description	Qty
96416	Surge Protective Device 60kA	4



Features

- Dual LEDs, audible alarm with silence switch
- Long-lasting hybrid GDT/TFMOV technology
- Mounting feet for stability
- Weather-rated NEMA 4X & IP 66
- Limited-lifetime warranty
- UL 1449 listed
- NEC's highest SCCR @200kA
- RoHS compliant

Recommended Application

Protect HVAC equipment from electrical surges. Protects from up to 60kA single surges and up to 20kA repetitive surges. Type 1 Device - can be mounted anywhere in the electrical system. Recommended for residential and commercial single-phase 120/240 VAC outside condensing units and indoor air handlers.

Specifications

- Operating Voltage - 120/240VAC
- Max discharge current per phase - 60kA (1 hit survivability)
- Normal discharge current - 20kA (15 hits survivability)
- Short circuit current - 200kA



SURGE PROTECTION DEVICES

RSH-120

Whole Home Surge Protective Device

Code	Description	Qty
96414	Surge Protective Device 120kA	4
96422	Flush Mount Plate (2 pack)	1



Features

- Dual diagnostic LEDs and audible alarm
- Long-lasting hybrid GDT/TMOV technology
- Mounting feet for stability
- Weather-rated NEMA 4X & IP 66
- Limited-lifetime warranty
- UL 1449 listed
- NEC's highest SCCR @200kA
- RoHS compliant

Recommended Application

Install at breaker box to protect whole home from transient power surges that can cause system lock-up and malfunctions, faulty output, corrupted files, equipment failure and long-term degradation of devices and equipment. Protects up to 120kA single surges and up to 20kA repetitive surges. Type 1 Device - can be mounted anywhere in the electrical system. Recommended for residential and commercial single-phase 120/240 VAC indoor facility breaker panel installation.

Specifications

- Operating Voltage - 120/240VAC
- Max discharge current per phase - 120kA (1 hit survivability)
- Normal discharge current - 20kA (15 hits survivability)
- SCCR - 200kA



96422 Metal Flush Mount Plates Also fits RSH-60 ▶

RSH-1203P

3-Phase Surge Protective Device

Code	Description	Qty
96452	3-Phase SPD 120kA, 240V Delta	4
96450	3-Phase SPD 120kA, 480V Delta	4
96451	3-Phase SPD 120kA, 600V Delta	4
96447	3-Phase SPD 120kA, 120/208V Wye	4
96448	3-Phase SPD 120kA, 120/120/240V Hi-Leg Delta	4
96449	3-Phase SPD 120kA, 277/480V Wye	4
96446	3-Phase SPD 120kA, 347/600V Wye	4



Features

- Long-lasting hybrid GDT/TMOV technology
- Dual diagnostic LEDs and audible alarm
- Type 1 SPD, NEMA 4X, and IP66 rated
- Limited-lifetime warranty

Recommended Application

Designed to protect 3-phase air conditioner, heat pumps, and RTU systems from transient overvoltage and natural-cause surges. Recommended for commercial 240V, 480V, and 600V Delta, 120/208V Wye, 120/120/240V Hi-Leg Delta, 277/480V Wye, and 347/600V Wye voltage systems.

Specifications

- Max discharge current per phase - 120kA (1 hit survivability)
- Nominal discharge current - 20kA (15 hits survivability)
- Short Circuit Current Rating (SCCR) 200kA on all models excluding 347/600V Wye & 600V Delta (150kA SCCR)



SURGE PROTECTION DEVICES

RSH-20 MP

Motor Protector

Code	Description	Qty
96427	RSH 20kA SPD for X-13/ "X" Style Motors	12
96428	RSH 20kA SPD for 5-PIN Motors	12
96429	RSH 20kA SPD for Ensight Motors	12
96430	RSH 20kA SPD for Azure Motors	12



Features

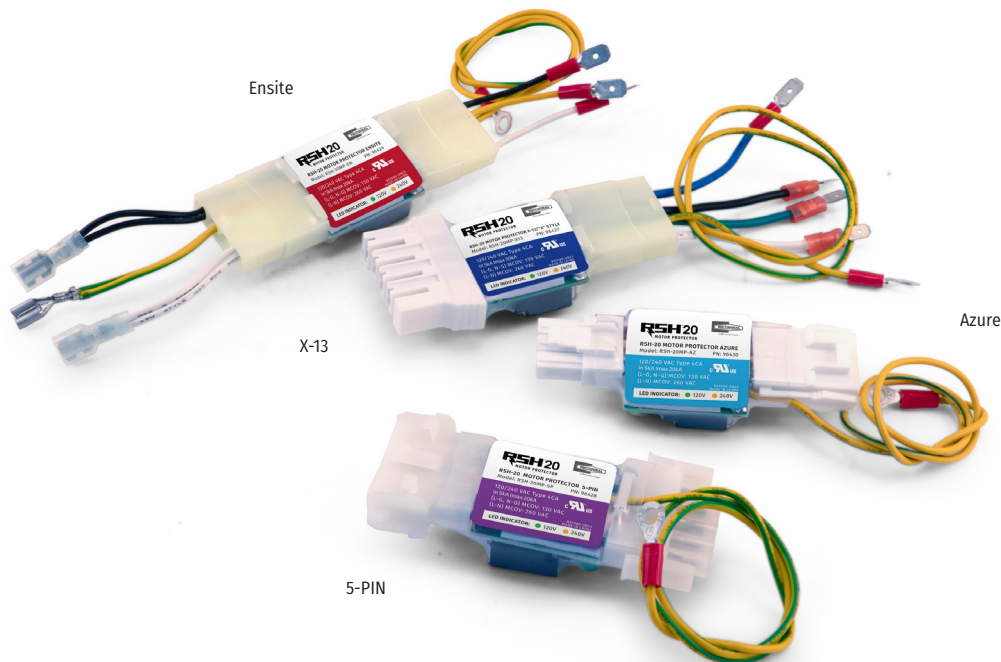
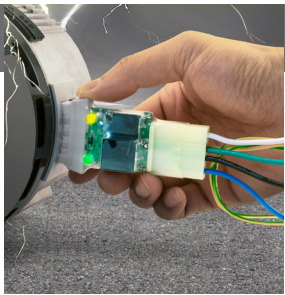
- UL recognized
- TFMV technology for safety & performance
- Limited 5-year warranty
- 3 modes of protection: L-G, N-G, L-N
- Plug-n-play for ease of installation
- Diagnostic LED indicates protection

Recommended Application

Protect single-phase 120/240V ECM indoor motors from transient overvoltage and natural-cause surges. Type 4CA Device - mounts between the motor and power harness. Recommended for residential and commercial single-phase 120/240V ECM indoor motors: X-13/"X" Style, 5-PIN, Ensight, and Azure.

Specifications

- Operating Voltage – 120/240 VAC
- Max discharge current per phase – 20kA (1 hit survivability)
- Nominal discharge current – 5kA (15 hits survivability)



SURGE PROTECTION & VOLTAGE RANGE MONITOR KITS

RSH-50 VRM Kit

SPD & Voltage Range Monitor

Code	Description	Qty
96421	Surge Protection 50kA/VRM Kit	1

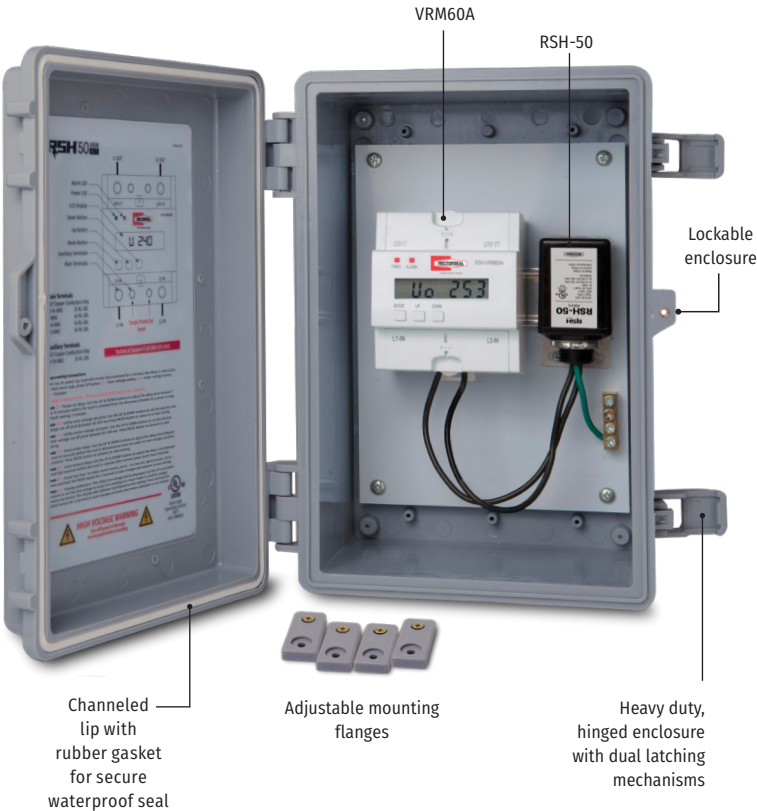


Features

- Includes RSH-VRM60A and RSH-50
- Over/undervoltage cutoff delay can be adjusted from 0.5 to 60 seconds
- Load restore delay adjustable from 1 to 600 seconds
- 120/240V single-phase loads
- 60A double-pole magnetic latching relays (handles loads 15a-60a)
- Large easy to read LCD digital display
- Dual red and green LED diagnostics indicators
- Easy set up, field programmable, no laptop or programming tool required
- Stores up to 300 over/undervoltage and power-loss events in resettable internal memory
- Non-volatile memory retains all settings and event log when power is lost
- Universal 35mm snap-on DIN-rail receiver
- Snap-on finger guard screw terminal covers
- Large box lugs for easy wire insertion
- Entire kit is NEMA 4X enclosure, with the VRM60A having DIN-rail housing

Recommended Application

Protect equipment from electrical surges and voltage disturbances by utilizing hybrid long-lasting GDT/TFMOV technology, combined with the ability to monitor the line protecting equipment against over and undervoltage conditions that can cause damage to circuit boards and motors. Fully programmable to set the voltage cutoff range from 85V to 300V while storing up to 300 events. Recommended for residential and commercial single-phase 120/240V HVACR equipment (air conditioning, heat pumps, mini-split applications).



SURGE PROTECTION & VOLTAGE RANGE MONITOR KITS

RSH-50 VRMDC Kit

SPD & VRM w/Disconnect

Code	Description	Qty
96424	Surge Protection 50kA/VRMDC Kit (with Disconnect Switch)	1



Features

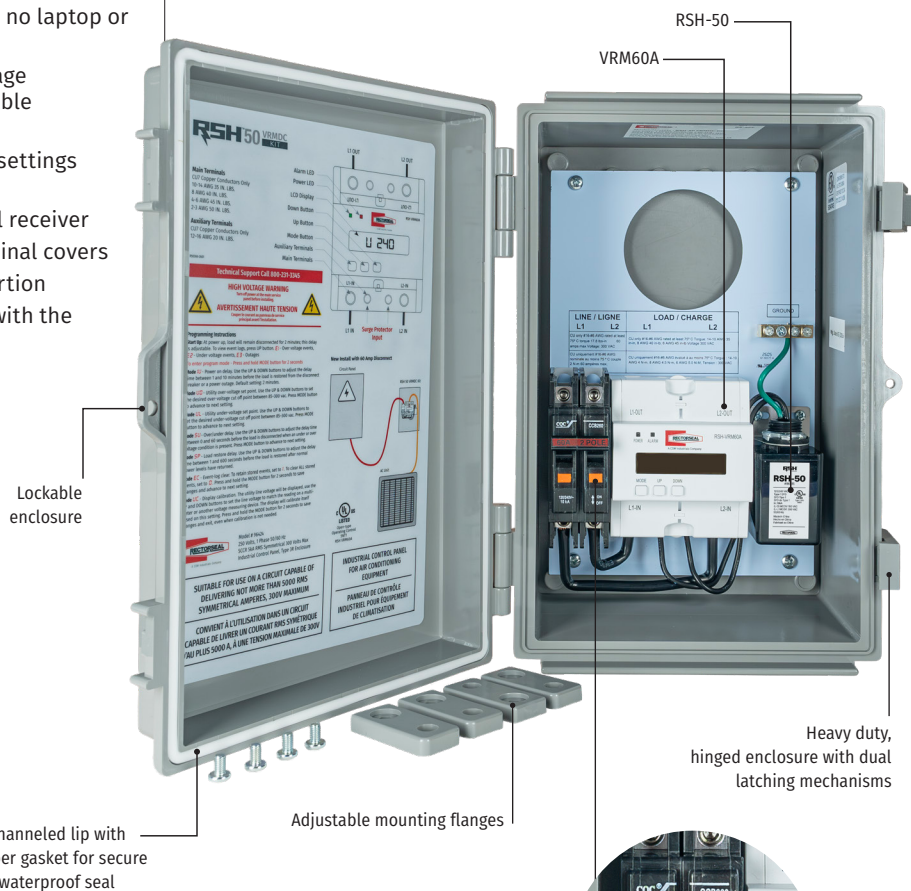
- 60A safety disconnect switch
- Includes RSH-VRM60A and RSH-50
- Over/undervoltage cutoff delay can be adjusted from 0.5 to 60 seconds
- Load restore delay adjustable from 1 to 600 seconds
- 120/240V single-phase, 60 amp double pole capacity relays (handles loads 15-60 amps)
- Magnetic latching relays
- Large easy to read LCD digital display
- Dual red and green LED diagnostics indicators
- Easy set up, field programmable, no laptop or programming tool required
- Stores up to 300 over/undervoltage and power-loss events in resettable internal memory
- Non-volatile memory retains all settings and event log when power is lost
- Universal 35mm snap-on DIN-rail receiver
- Snap-on finger guard screw terminal covers
- Large box lugs for easy wire insertion
- Entire kit is NEMA 4X enclosure, with the VRM60A having DIN-rail housing

Recommended Application

Protect equipment from electrical surges and voltage disturbances by utilizing hybrid long-lasting GDT/TFMOV technology, combined with the ability to monitor the line protecting equipment against over and undervoltage conditions that can cause damage to circuit boards and motors. Fully programmable to set the voltage cutoff range from 85V to 300V while storing up to 300 events. Recommended for residential and commercial single-phase 120/240V HVACR equipment (air conditioning, heat pumps, mini-split applications).



RSH-50 ONLY



Disconnect switch



VOLTAGE RANGE MONITORS

RSH-VRM60A

Voltage Range Monitor

Code	Description	Qty
96420	Voltage Range Monitor	4

Features

- Over/undervoltage cut off delay can be adjusted from 0.5 to 60 seconds
- Load restore delay adjustable from 1 to 600 seconds
- 120/240V Single-phase, 60 Amp double pole capacity relays (handles loads 15-60 Amps)
- Magnetic latching relays for maximum reliability
- Large easy to read LCD digital display
- Dual red and green LED diagnostics indicators
- Easy set up, field programmable, no laptop or programming tool required
- Stores up to 5 over/undervoltage and power-loss events in Resettable Internal Memory
- Non-volatile Memory retains all settings and event log when power is lost
- Snap-on finger guard screw terminal covers
- Large box lugs for easy wire insertion
- DIN-rail housing & independently mounted
- Type 1 action
- Pollution degree 2

Recommended Application

Monitors the line, protects equipment against over and undervoltage conditions that can cause damage to circuit boards and motors. Fully programmable to set the voltage cutoff range from 85V to 300V while storing up to 5 events. Recommended for residential and commercial single-phase 120/240V HVACR equipment (air conditioning, heat pumps, mini-split applications).



DIN-rail Mounted

RSH-VRM2403P

3-Phase Voltage Range Monitor

Code	Description	Qty
96453	3-Phase 240V Range Monitor for 208V-240V 3-Phase Systems	4

Features

- LCD display for instant system status and diagnostics
- Set voltage thresholds (85V-300V) on-site, no tools needed
- Built-in current transformers for over/under monitoring, not on competing products
- Power factor and energy data for maintenance reports
- Snap-on covers, large wire lugs, DIN-rail mount included
- 60A magnetic latching relays, 300-event memory
- Longest warranty in the industry, 3 years

Recommended Application

Monitors 3-phase voltage, automatically cutting power during harmful fluctuations and restoring when safe. Protects commercial HVAC compressors, motors, and equipment from over/undervoltage damage and brownouts. Fully programmable to set the voltage cutoff range from 85V to 300V while storing up to 300 events. Recommended for residential and commercial 3-phase 208-240V HVACR equipment (rooftop units, commercial chillers, package units, 5+ ton systems).



DIN-rail Mounted



VOLTAGE MONITORING DEVICE

RSH-60VMD

60kA SPD & Voltage Monitoring Device

Code	Description	Qty
96426	Surge Protection Device 60kA/VMD	2



- Features**
- Dual LEDs, audible alarm, voltage monitoring circuit
 - Long-lasting hybrid GDT/TMOV technology
 - Mounting feet for stability
 - Weather-rated NEMA 4X & IP 66
 - 5-year warranty
 - UL 1449 listed
 - NEC's highest SCCR @200kA
 - RoHS compliant

Recommended Application

Protect HVAC equipment from electrical surges, brownouts, and short cycling. Protects from up to 60kA single surges and up to 20kA repetitive surges. Type 1 Device - can be mounted anywhere in the electrical system. Recommended for residential and commercial split-phase 240 VAC outside condensing units and indoor air handlers.

- Specifications**
- Operating Voltage - 240 VAC
 - Max discharge current per phase - 60kA (1 hit survivability)
 - Nominal discharge current - 20kA (15 hits survivability)
 - Short circuit current - 200kA



DISCONNECTS

RSH-50 PDB

Plastic Disconnect Box w/ RSH-50 SPD

Code	Description	Qty
96431	30A Fused Plastic Disconnect w/RSH-50	6
96432	60A Fused Plastic Disconnect w/RSH-50	6
96433	30A Non-Fused Plastic Disconnect w/RSH-50	6



Features

- NEMA 4X plastic enclosure delivers superior waterproof protection for harsh outdoor environments
- Exterior switch operation eliminates the interior pull-out mechanism for safer, easier disconnect access
- Built-in RSH-50 protects single-phase systems from transient overvoltage and surges with Gas Discharge Tube technology
- Locking screws provide tamper-resistant security, replacing traditional hanging lock loops for enhanced protection
- Three ½" knockouts, included connectors, and pre-wired surge protector for fast field installation
- 3-year warranty on the disconnect box, 5-year/\$5,000 downline equipment coverage, plus limited-lifetime product replacement warranty on RSH-50 surge device for complete peace of mind

Recommended Application

Protect HVAC equipment from electrical surges with factory installed surge protection in a NEMA 4X plastic disconnect box. Protects from up to 50kA single surges and up to 10kA repetitive surges. Can be wall mounted. Recommended for residential and commercial single-phase 120/240V outside condensing units and indoor air handlers.



▲ All PDB models include RSH-50 surge protection device
◀ (96415)

DISCONNECTS

RSH-50 DB

Disconnect Box w/ RSH-50 SPD

Code	Description	Qty
96417	30A Fused Disconnect w/RSH-50	6
96418	60A Fused Disconnect w/RSH-50	6
96419	30A Non-Fused Disconnect w/RSH-50	6



Features

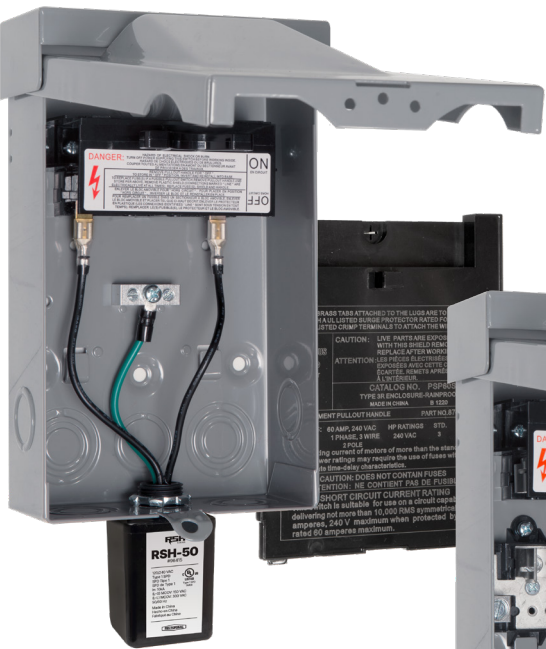
- Fused & non fused option

Recommended Application

Protect HVAC equipment from electrical surges with factory installed surge protection in a NEMA 3R steel disconnect box. Protects from up to 50kA single surges and up to 10kA repetitive surges. Can be wall mounted. Recommended for residential and commercial single-phase 120/240V outside condensing units and indoor air handlers.



Non-fused



Fused



▲ All DB models include RSH-50 surge protection device (96415) ►



Extended RSH product information can be found at:
rectorseal.com/surgeprotection

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